



024-US1-Sequence Listing.ST25.txt  
SEQUENCE LISTING

<110> Quark Biotech Inc.

<120> Genes involved in stroke response and/or regulated by FK506, proteins encoded thereby, and methods of use

<130> 65542/024-US1

<140> 10/021338

<141> 2001-12-12

<160> 131

<170> PatentIn version 3.1

<210> 1

<211> 269

<212> DNA

<213> Homo sapiens

<400> 1

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gccctctccc cctgcctcac tcccaatgtc tcctttgggt aagccccctc cacaggcccc      120
acctgctctg gccacacctc ctctgcaggc ccttccctct ccgcctgcct cattccctgg      180
gcaggcccct ttctcaccct ctgcctcact cccaatgtct cctttggcca cgcctcctcc      240
acaggcccca cctgttctgt agttagtta                                     269
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<210> 2

<211> 280

<212> DNA

<213> Homo sapiens

<400> 2

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aatgcctggg gcctccctga gtgaattccc aataggagtc ttccacttt agtccaacat      120
gaggcaagta gttgcagggt ccaggtaaca taatgagctc caccttggtg atcactctga      180
gtagacaatg ctcaaaaaaa cagagcacca cataatgtat caaccctaac agtcaccctt      240
ctgacatctc tattggaaag aggggataag tagttagtta                                     280
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<210> 3

<211> 261

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<212> DNA

<213> Homo sapiens

<400> 3

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ttttatctca cttatgataa aatccaaaac tcacagcata gccactctcc ccaaagcata	180
ctatgcttta accacactgg tctttcctaa aagtttctcc tattccccaa tctttcttcc	240
ttactctaag gtagttagtt a	261

<210> 4

<211> 261

<212> DNA

<213> Homo sapiens

<400> 4

taactaacta gggaacctgg gggccaaggg gccccagcag tcagcaccaa tgcaatagtc	60
cttgaagatc acggccaaag ctatacttgc tctggacagg taactcccc tttcatgggc	120
aggggtggta aaaggagcaa gcagaagcaa aaaggaattt tcctctaaaa acagaattgc	180
tgaaaggcac ttaatagagg gatagggggc agacacgggtg gctcacacct ataatcccag	240
tactttaata ggaagaggct g	261

<210> 5

<211> 110

<212> DNA

<213> Homo sapiens

<400> 5

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gtccctaagc agatggctgt aagacagaag gtcacctatc tcccagagtgg	110

<210> 6

<211> 256

<212> DNA

<213> Homo sapiens

<400> 6

taactaacta gataagtgat ctgtggccac atttgcagta cgtgatcctg acccactggc	60
cactgctaataa tggataataa gcagctacca catccagtat gagccagtca gacacctctct	120

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cttgggaaac tagcattcac agccagtgcc tctacagaga aggaagcata agcatttaga	180
aagatagttc tcctgactct agggggccac tggtaataac aatctcagtt tctgaggctt	240
tccagtttct ggatcc	256

<210> 7  
 <211> 403  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(500)  
 <223> n

<400> 7	
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ttgtgggttc tggtttagct cttttataat tgtaaagtta tatttttgct gctttgtaat	180
aggataattc ttaagcatca tcttaaaata gaggtatttt gattcctttt tgtggagctg	240
tgactaaagt gcagngtctc acataggcta agcaagtgtc gtgcactgag ttgaacccca	300
gcagaagtag gtgctgcaag tgtaaaacaa ggctaaaggg cctaatagcac acagcctgtg	360
caggccgcga gtgcaccgac tataagcccc atgctattaa agc	403

<210> 8  
 <211> 401  
 <212> DNA  
 <213> Rattus sp.

<400> 8	
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ttgtgggttc tggcttagct cttttataat tgtacagcta tatttttgct gctttgtaat	180
aggataattc ttaagcatca tcttaacata gaggtatttt gcttcttttt tgtggcgctt	240
gacattaagt gcagcctctc acataggcta agcaagtgtc gcgcacttga gtgaactgca	300
gcagaagtag tcgctgcacg tgtaaaacaa ggctacagat tctaatagcac acagcctgtg	360

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cagaccgcgt gtccaccgtc tataaggcat ggctataacg g 401

<210> 9  
<211> 402  
<212> DNA  
<213> Rattus sp.

<220>  
<221> misc\_feature  
<222> (1)..(500)  
<223> n

<400> 9  
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acagcacttg cttagcctat gtgagaccct gcacttaatg cccagcacca caaaaaagaa 180  
acaaaatacc tctatttttaa gatgatgctt aagaattatc ctattacaaa gcagcanaaa 240  
tataacttta caattataaa agagctaaac caggacccac aatcagtgtc taagtgtgaa 300  
tctaataaac actgcctctc tgcagctctt accagctttc tgggttggtta cacacactca 360  
cacacgcgca cacacacaca cacgcgctcc ctctactga gg 402

<210> 10  
<211> 410  
<212> DNA  
<213> Rattus sp.

<400> 10  
tggagctaat tgcgcgcggc cgcggtacga cgaacctgcc cctgatgacc ctcacccctt 60  
ttgcataggt cactggatcc cactgtcctt cctcggtgct tacacacttt acagaccctt 120  
taggcgagcc cttgcataga gcgttatctc agtgctccat tccagtcctg actccctgtg 180  
gccattgaga ctttggattt aagaactcac attgctaggg agaggggctt tgctgggaaa 240  
ggtgactcct ctgtaaccta gcctcttgtg ctctccatg acagaaatgc tgggtggagt 300  
tttacatttg ccaatggcca gcttgtgaat atcttcatat acactttcta ttcattgttac 360  
tgtagtttct gttttgaaat aaaacttctg aatgtaaaaa aaaaaaaaaa 410

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<210> 11  
 <211> 242  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(500)  
 <223> n

<400> 11  
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 gcagtccagg cacaccctgt gtgcagagtc ggccatgctt tgggaggggtg tcaggaaaga 120  
 gtcatttact ttgactgcct gtgggctgac ttcagaactt caggtcttaa ggtttgctgg 180  
 cttctgaaaa cactttctaa agagcccatg aaatataaat ataactaact tagaaagccc 240  
 tg 242

<210> 12  
 <211> 69  
 <212> DNA  
 <213> Rattus sp.

<400> 12  
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 gggggggggg 69

<210> 13  
 <211> 165  
 <212> DNA  
 <213> Rattus sp.

<400> 13  
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 cttgacatgc tgtatatatt ctattgtatt tgtttcattg tcccacactt aactcaggtg 120  
 tgctaaaaat aaaagtaaatt ttttaacagtc aaaaaaaaaa aaaaa 165

<210> 14  
 <211> 172  
 <212> DNA  
 <213> Rattus sp.

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<400> 14  
 tttttttttt ttttttggac ggtaaaaatt aactttaatt ttaagcacac ctgagttaag 60  
 gggggaacaa tgaaacaaat ccaatagaat ttttacagca tgtaaaggag gcaggtttaa 120  
 aagccatgct ataaaaaaga gaaaactgga aggcaggtac gccgtaccgg gc 172

<210> 15  
 <211> 157  
 <212> DNA  
 <213> Rattus sp.

<400> 15  
 ctgcctccca gtcttctctt ttctatagca tggctttaaa gcctgcctcc ttgacatgct 60  
 gtatatattc tattgtattt gtttcattgt cccacactta actcaggtgt gctaaaaata 120  
 aaagtaaatt ttaacagtca aaaaaaaaaa aaaaagg 157

<210> 16  
 <211> 209  
 <212> DNA  
 <213> Rattus sp.

<400> 16  
 ccatacagtg cgcacttcga gtataacaac gcgagtgcaa tgctttacca tgatgcatga 60  
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 ttggaaggca ctaactgatt gcgttaagac gcattctatc aaggttatca tagatgaaag 180  
 atcatagaaa ctggaaggca taaactgag 209

<210> 17  
 <211> 323  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(323)  
 <223> n

<400> 17  
 ccatacagtg cgcactgcga gactcacaac gcgagtgcaa cgcattacca tgatgcatga 60  
 agaaaactga ggagacagat cagctactat cgaagccatt acagctggag agatacttac 120

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tggaagccg ctaactgatt gcgttacgtc gaaatgtatc aaggttatca tagatgagag	180
atcatagaaa ctgctaggca tacactgagc attaagctta tcgacaccgt ggagctcgag	240
gtgagtccac gcaccagctg tgggaccgtg tagggactgn tacctacgag catggcgaga	300
tcataggcat agnntngtan tca	323

<210> 18  
 <211> 159  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(160)  
 <223> n

<400> 18	
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tgatatattc tattgtattt gtttcattgt cccacactta actcaggtgt gctaaaaata	120
aaagtaaatt ttaacagtca aaaaaaaaaa aaaaaaagg	159

<210> 19  
 <211> 162  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(500)  
 <223> n

<400> 19	
cgacgaacct gcctcccagt cttctctttt ctatagcatg gctttaaaagc ctgcctcctt	60
gacatgctgt atatattcta ttgtatttgt ttcatgtgcc cacacttaac tcaggtgtgc	120
taaaaataaa agtaaatttt aacagtcaaa aaaaaaaaaa aa	162

<210> 20  
 <211> 142  
 <212> DNA  
 <213> Rattus sp.

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<220>

<221> misc\_feature

<222> (1)..(500)

<223> n

<400> 20

cttctctttt ctatagcatg gcttttaaagc ctgcctcctt gacatgctgn atatattcta 60

ttgtatttgt ttcattgtcc cacacttaac tcaggtgtgc taaaaataaa agtaaatttt 120

aacagtcaaa aaaaaaaaaa aa 142

<210> 21

<211> 162

<212> DNA

<213> Rattus sp.

<220>

<221> misc\_feature

<222> (1)..(500)

<223> n

<400> 21

cgacgaccct gcctcccagt cttctctttt ctatagcatg gcttttaaagc ctgcctcctt 60

gacatgcntg atatattcta ttggatttgt ttcattgtcc cacacttaac tcaggtgtgc 120

taaaaataaa agtaaatttt aacagtcaaa aaaaaaaaaa ag 162

<210> 22

<211> 159

<212> DNA

<213> Rattus sp.

<400> 22

cgacgaacct gcctcccagt cttctctttt ctatagcatg gcttttaaagc ctgcctcctt 60

gacatgctgt atatattcta ttgtatttgt ttcattgtcc cacacttaac tcaggtgtgc 120

taaaaataaa agtaaatttt aacagtcaaa aaaaaaaaaa 159

<210> 23

<211> 163

<212> DNA

<213> Rattus sp.

<400> 23



## 024-US1-Sequence Listing.ST25.txt

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ccttgacatg ctgtatatat tctattgtat ttgtttcatt gtcccacact taactcaggt 120  
gtgctaataaa taaaagtaaa ttttaacagt caaaaaaaaaa aaa 163

<210> 24  
<211> 106  
<212> DNA  
<213> Rattus sp.

<400> 24  
gatctgagac ccactttgca gacatgtgca cagatgtgtt ccatttccct atttttgctg 60  
tagagaaaca agtaaatttt cttagagaat gaaaaaaaaa aaaaaa 106

<210> 25  
<211> 176  
<212> DNA  
<213> Rattus sp.

<400> 25  
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tgcacagatg tgttccattt ccctattttt gctgtagaga aacaagtaaa ttttcttaga 120  
gaatgaaaaa aaaaaaaaaa at agggcgcgcc tttaaaacgg ttccgatttt tgggcc 176

<210> 26  
<211> 163  
<212> DNA  
<213> Rattus sp.

<220>  
<221> misc\_feature  
<222> (1)..(600)  
<223> n

<400> 26  
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tgacatgctn gatatatattt attggatttg tttcattgtc ccacacttaa ctcagggtgtg 120  
ctaaaaataa aagtaaattt taacgggtcaa aaaaaaaaaa aaa 163

<210> 27  
<211> 109

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<212> DNA

<213> Rattus sp.

<400> 27

gatctgagac ccacttttgca gacatgtgca cagatgtggt ccatttccct atttctgctg 60

tagagaaaca agtaaatttt cttagagaat gaaaaaaaaa aaaaaaaaaa 109

<210> 28

<211> 121

<212> DNA

<213> Rattus sp.

<400> 28

ggcgacgtac ctgcgatctg agaccactt tgcagacatg tgcacagatg tgttccattt 60

ccctatttct gctgtagaga aacaagtaaa ttttcttaga gaatgaaaaa aaaaaaaaaa 120

a 121

<210> 29

<211> 127

<212> DNA

<213> Rattus sp.

<400> 29

tttttttttt ttttttttaa ttcttttaaaa aaattttactg gtttctttac agcaaaaata 60

gggaaatgga acacatttgg gcacatgttt gcaaaggggg tctaaaatcg cagggtacgtg 120

gtaccgg 127

<210> 30

<211> 225

<212> DNA

<213> Rattus sp.

<400> 30

ggacgacgta cctgcatgat tggttccacc taataagcaa ggaaagaata cttgaccttc 60

aaactcatcc agtgttggag atctccataa taccttccat cttttggacc atgccttgga 120

tggagacaga cactactgga gaaaggggct gcttacccca gagagaatac tacctaaatg 180

ctgctacatc agagactatc catgacgagc atctcatata aggat 225

<210> 31

<211> 451

## 024-US1-Sequence Listing.ST25.txt

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 31

atgattgggtt ccacctaata agcaaggaaa gaatacttga ccttcaaact catccagtgt	60
tggagatctc cataatacct tccatccttt ggcccatgcc ttggatggag acagacacta	120
ctggagaaaag gggctgcttt cccagagag agataactacct aaatgctgggt tcatcagaga	180
atatccatga agagcatctc agataaggat tgaaaagggg gtgctgggta gagtatagta	240
gaggaggact tgttaagttc actgatgctg ggaagaaact tcctgtaatg cctacagcat	300
tccatggggcc atagagtacc aatatgggtat gcctctttac agagtcaatc tcagccccc	360
gaaagtgtat tctactgtgc tcaggcccaa aggcagtgtg gtgggtcaaag ggcaactggc	420
ctcctgaacc cagtagagcc ttgcaaagtg c	451

&lt;210&gt; 32

&lt;211&gt; 505

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 32

ggtacgacga ccctgcatga ttggttccac ctaataagca aggaaagaat acttgacctt	60
caaactcatc cagtgttggg gatctccata ataccttcca tcctttggcc catgccttgg	120
atggagacag acactactgg agaaaggggc tgctttcccc agagagaata ctacctaaat	180
gctgggttcat cagagaatat ccatgaagag catctcagat aaggattgaa aaggggggtgc	240
tgggtagagt atagtagagg aggacttggt aagttcactg atgctgggaa gaaacttcct	300
gtaatgccta cagcattcca tgggcatag agtaccata tggatatgcct ctttacagag	360
tcaatctcag cccccagaaa gtgtattcta ctgtgctcag gcccaaaggc agtgtgggtg	420
tcaaagggca actggcctcc tgaacccaga agagccttgc aaagtgctgg cagtcaggga	480
ggtgccatac atgattcttg tcttt	505

&lt;210&gt; 33

&lt;211&gt; 402

&lt;212&gt; DNA

&lt;213&gt; Rattus sp.

&lt;400&gt; 33

## 024-US1-Sequence Listing.ST25.txt

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ctttaatagc catggcctta tagacggtgg ccacgcggcc tgcacaggct gtgtgcatta      60
ggccctttag ccttgtttta cacttgcagc acctacttct gctgggggttc aactcagtgc      120
acagcacttg cttagcctat gtgagaccct gcacttaatg cccagcacca caaaaaagaa      180
acaaaatacc tctattttta gatgatgctt aagaattatc ctaattcaaa gcagcaaaaa      240
tataacttta caattataaa agagctaaac cagaaccac aatcagtgtc taagtgtgaa      300
tctaataaac actgcctctc tgcagctctt accagctttc tgggttggtta cacacactca      360
cacacgcgca cacacacaca cacgcgctcc ctctactga gg                          402

```

```

<210> 34
<211> 294
<212> DNA
<213> Rattus sp.

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<400> 34
tttttttttt tttttttttt tttgggggctt tcggcggttt tttttttgga aggaaacca      60
tgggggggggg tttggggggg ggggccccct aaaaaataac ctgggggttca aaggggcccc      120
aaaccttact ggaaaggccg ggggacaaaa ccatgggtttc aaccggacca cttgttacca      180
aggtggggggc cccaagaggg cttcaggggg ggggggggggc ccttttaaaga aagcgggaac      240
tgggggggggc aaaccctggg cccacctttg acccccttga aaaaaaaaaa aaaa          294

```

```

<210> 35
<211> 286
<212> DNA
<213> Rattus sp.

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```

<400> 35
ctcccagtct tctcttttct atagcatggc tttaaagcct gcctccttga catgctgtat      60
atattctatt gtatttggtt cattgtccca cacttaactc aggtgtgcta aaaataaaag      120
taaattttta cagtcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggga      180
aaaaaaaaaa aaaggggccc cccttttaaa ggggtcccaa ttttggggcc cctttttgaa      240
aaaacttttt tttaaaaccc ccgggggggat taaatttttt tggggg                    286

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```

<210> 36
<211> 203
<212> DNA

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<213> Rattus sp.

<400> 36

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cattagtggg gaggtgtgca gtgggactgt gagtgcaact acttttagtgc agatgtgtgc      60
agtgggcctg tgagtgcaga atcattagtg cagatgtgtg tagtgggcct gtgagtgcag      120
gcacattagt gcagaggtgt gaagtgggcc tgtcagtgca ggcacattag tggagaggtg      180
tgaagtgggc ctgtgagtgc agg                                203
```

<210> 37

<211> 147

<212> DNA

<213> Rattus sp.

<400> 37

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caagcttttt tttttttttt tttttttttt ggtttttggc ggtttttattt ttggcaggaa      60
accctggggg ggggggtttg tgggggggggc ccccttaaaa ataccccgga ggtcaagggg      120
gttcaaaaact ttttttaaaa ggctggg                                147
```

<210> 38

<211> 360

<212> DNA

<213> Rattus sp.

<400> 38

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ccttttttct ccccatgga agcgaagact ctgaacacag agtgggtctgt attgtgggggt      60
tggggggttgc ctccctatcg ctgggtagcc tgaagcgtga gtccagacta gacgtgtgag      120
gggaatgatc tatgccgtgc tcgaatagct gggaggtccc tttgtccctg agaccagaac      180
gggaaatggg tatccgcact gggaagctgc ctctcaagta gaaactgcca gataactttc      240
tgggctggga attctgtcaa cttaactgaa gcctggcagc atccgccccca aagcaattta      300
aattagggag agtcctgggc tgtcccaggt gcccttaggt aaacttgaca gactgctgag      360
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<210> 39

<211> 151

<212> DNA

<213> Rattus sp.

<400> 39

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ctcccagtct tctcttttct atagcatggc tttaaagcct gcctccttga catgctgtat      60
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## 024-US1-Sequence Listing.ST25.txt

atattctatt gtatttgttt cattgtccca cacttaactc aggtgtgcta aaaataaaag 120  
 taaattttta cagtcaaaaa aaaaaaaaaa a 151

<210> 40  
 <211> 163  
 <212> DNA  
 <213> Rattus sp.

<400> 40  
 cgacgaccct gcctcccagt cttctctttt ctatagcatg gcttttaaagc ctgcctcctt 60  
 gacatgctgt atatattcta ttgtatttgt ttcattgtcc cacacttaac tcagggtgtgc 120  
 taaaaataaa agtaaatttt aacagtcaaa aaaaaaaaaa aaa 163

<210> 41  
 <211> 77  
 <212> DNA  
 <213> Rattus sp.

<400> 41  
 gatgtgttcc acttccctat ttctgctgta gagaaacaag taaattttct tagagaatga 60  
 aaaaaaaaaa aaaaagg 77

<210> 42  
 <211> 204  
 <212> DNA  
 <213> Rattus sp.

<400> 42  
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 cagaaagctg gtaagagctg cagagaggca gtgtttatta gattcacact tagacactga 120  
 ttgtgggttc tggtttagct cttttataag tgtaaagcta tatttttgct gctttggaat 180  
 aggataattc ttaagcatca tctt 204

<210> 43  
 <211> 498  
 <212> DNA  
 <213> Rattus sp.

<400> 43  
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## 024-US1-Sequence Listing.ST25.txt

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atcttggtgc agatttataa gtttttagagt agcccagaga ctaaaagtga atacttagca 120
aatggatagc cagtgttcta tataggaatc attgcttttc agagggctta aagtttaagt 180
agaaaatata tactcaagaa ggcgataaaa gctgatgaga aagtgagtta gcagaacca 240
aagccgtgct gggccgcggt gactcattag cagaggagga ggggagggca gtatattcct 300
gggatactct ctccagaccc agcctggctt ctgacatcat ccacctgtgc cctcaaaacc 360
gtcttagtct gttctgcaac tcttaagtga catacctaac tcagctcatg gctaaggaaa 420
aaaaattaaa gttgtcctgg tgattaaact ctggacctcc cacatctaag tcccgagttg 480
acaaactgca tccccagc 498

```

```

<210> 44
<211> 400
<212> DNA
<213> Rattus sp.

```

```

<400> 44
ctttaatagc catggcctta tagacggtgg ccacgcgacc tgcacaggct gtgtgcatta 60
ggcccttttag ccttgtttta cacttgcagc acctacttct gctggagctc aactcagtgc 120
acagcacttg cttagcctat gagagaccct gcacttaatg cccagcacca caaaaaagaa 180
acaaaatacc tctattttaa gatgatgctt aagaattatc ctattacaaa gcagcaaaaa 240
tataacttta caattataaa agagctaaac cagaaccac aatcagtgtc taagtgtgaa 300
tctaataaac actgcctctc tgcagctctt accagctttc tggattgtta cacacactca 360
cacacgcgca cacacacaca cgcgctccct cctactgagg 400

```

```

<210> 45
<211> 209
<212> DNA
<213> Rattus sp.

```

```

<400> 45
cctcagtagg agggagcgcg tgtgtgtgtg tgtgcgctg tgtgagtgtg tgtaacaacc 60
cagaaagctg gtaagagctg cagagaggca gtgtttatta gattcacact tagacactga 120
ttgtgggttc tggtttagct cttttataat tgtaaagtta tatttttgct gctttgtaat 180
aggataattc ttaagcatca tcttaaaat 209

```

024-US1-Sequence Listing.ST25.txt

<210> 46  
 <211> 403  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(600)  
 <223> n

<400> 46  
 ctttaatagt catggcctta tagacggtgg ccacgcggcc tgcacaggct gtgtgcatta 60  
 ggccctttag ccttgtttta cacttgcagc acctacttct gctgggggttc aactcagtgc 120  
 acagcacttg cttagcctat gtgagaccct gcacttaatg cccagcacca caaaaaagaa 180  
 acaaaatacc tctatttttaa gatgatgctt aaagaattat cctattacaa agcagcaaaa 240  
 atataacttt acaattataa aagagctaaa ccagaaccca caatcagtgt ctaagtgtga 300  
 atctaataaa cactgcctct ctgcagctct taccagctnt ctgngttgtt acacacactc 360  
 acacacgcgc acacacacac acacgcgctc cctcctactg agg 403

<210> 47  
 <211> 404  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(600)  
 <223> n

<400> 47  
 cctcagtagg agggagcgcg tgtgtgtgtg tgtgcgcgtg tgtgagtgtg tgtaacaacc 60  
 cagaaagctg gtaagagctg cagagaggca gtgtttatta gattcacact tagacactga 120  
 ttgtgggttc tggtttagct cttttataat tgtaaagtta tatttttgct gctttgtaat 180  
 aggataattc ttaagcatca tcttaaaata gagggtatatt tgtttctttt ttgtgggtgct 240  
 gggcattaag tgcagggtct cacataggct aagcaagtgc tgtgcactga gttgaacccc 300  
 agcagaagta ggtgctgcaa gtgtaaaaca aggctaaagg gctaatagcac actagctgtg 360



caggccgcgt ggtcatcgtc tataangcca tggctaataa agtt 404

<210> 48  
 <211> 403  
 <212> DNA  
 <213> Rattus sp.

<400> 48  
 ctttaatagc catggcctta tagacgggtgg ccacgcggcc tgcacaggct gtgtgcatta 60  
 ggcccttttag ccttgtttta cacttgcagc acctacttct gctgggggttc aactcagtgc 120  
 acagcacttg cttagcctat gtgagaccct gcacttaatg cccagcacca caaaaaagaa 180  
 acaaaatacc tctattttaa gatgatgctt aaagattaat cctattacaa agcagcaaaa 240  
 atataacttt acaattataa aagagctaaa ccagaacca caatcagtgt ctaagtgtga 300  
 atctaataaa cactgcctct ctgcagctct taccagcttt ctgggttggt acacacactc 360  
 acacacgcgc acacacacac acacgcgctc cctcctactg agg 403

<210> 49  
 <211> 433  
 <212> DNA  
 <213> Rattus sp.

<400> 49  
 ctggcacctc attgccaaga ctgtccattc caatatttag ttcgccaagc ttttgaatag 60  
 acctattaag gaattgctca gtaagattct gctgctgac aggaccgtcc tcttggttca 120  
 cacctccttc aagtaacatc tgctgggtata tctgccgctg ttgctccttc tgttcgagat 180  
 gctgctgata gcgcaatctt tgcctataat attcttgaaa ttgttcagta gaatctcgaa 240  
 gctcgttttt ttcttggttg ttagctggaa ctgggttctg tgctccattt gcaggctctt 300  
 tctctaacc cgaaccctgg cacatgggtt caatgctcac aggctgctgg gtctcaacag 360  
 gggatatcact tcgctcagga gattcttcat agatactatg acactctgta ttctcaagca 420  
 gaagacttct gct 433

<210> 50  
 <211> 262  
 <212> DNA  
 <213> Rattus sp.

024-US1-Sequence Listing.ST25.txt

<400> 50

cgaggaccag cacagcagtg aggaggagga agaagaggaa gaggaggagg agagtgaaga	60
cggggaggag gaggaggaca tcaccagtgc cgagtcagag agcagtgagg aggaggaagg	120
cggccccggg gacggccaga acaccacccg gcagcagcag ctagaatggg actactccac	180
actcagctac taaacacgcg ctgcgccagc acctgctctc cagactctcc cagccatctt	240
ccagccccac ggggccacga tg	262

<210> 51

<211> 262

<212> DNA

<213> Rattus sp.

<400> 51

cgaggaccag cacagcagtg aggaggagga agaagaggaa gaggaggagg agagtgaaga	60
cggggaggag gaggaggaca tcaccagtgc cgagtcagag agcagtgagg aggaggaagg	120
cggccccggg gacggccaga acaccacccg gcagcagcag ctagaatggg actactccac	180
actcagctac taaacacgcg ctgcgccagc acctgctctc cagactctcc cagccatctt	240
ccagccccac ggggccacga tg	262

<210> 52

<211> 388

<212> DNA

<213> Rattus sp.

<400> 52

cttcttgatg atgcgtaaca tggtctggta ggagttccaa gtgttggtgag ccaccaggag	60
atcatggctg ccgggcagca gcttgatgag ggcagagcac gaaccggagc ccacggaagg	120
cttggtggtg gtcttattca gggctggctc taggtcttcc agatctccag agatctgcag	180
caggaggaac cccaagggtt tgatgttgaa cctcccagtt gggaagggtta aacggccttc	240
atagctgtcc tccaggcctt tcagctgcaa gagggtcagc cgcacctggg gccagtatgg	300
cgagtccggg ctaagctcca tttccctctg catccactcc aggttggcct ccaggaagct	360
cttgagcttc tcacagtagc cgacttcg	388

<210> 53

<211> 164

024-US1-Sequence Listing.ST25.txt

<212> DNA

<213> Rattus sp.

<400> 53

cgacgaccct gcctcccagt cttctctttt ctatagcatg gcttttaaagc ctgcctcctt 60

gacatgctgt atatatctta ttgtatttgt ttcattgtcc cacacttaac tcaggtgtgc 120

taaaaataaa agtaaatttt aacagtcaaa aaaaaaaaaa aaag 164

<210> 54

<211> 150

<212> DNA

<213> Rattus sp.

<400> 54

gcggccgccc gggcaggctc ctccgcgtgt ttggtggggt tacttttccc acttcgcgac 60

gtttgccctg ggcagctcag aagtgttacg tgttgcaccc tccccaaggc tgtcaacagc 120

agaaagcaac ccctggcgct agcccgtatt 150

<210> 55

<211> 99

<212> DNA

<213> Rattus sp.

<400> 55

catgaaaata acggagcctc gaaagctata acagaccttt tgtacataga gaaatggcat 60

atttattaaa taagttggat ttgtaaaaaa aaaaaaaaaa 99

<210> 56

<211> 357

<212> DNA

<213> Rattus sp.

<400> 56

ggaggcggag gatgagtgcc aacaccctcg actgcctgct ctaggcgatg aggttataga 60

aagggaagag ttccaggata tggctgtgtg tgtagggggc atgaaggcag gttataaaca 120

aatatatccc agctgcctaa ggagttgggt gctgtcctca ctcttaacaa tccagtggga 180

tctagtgatc aacatcagtt tggagactct aatcttcatg ctcattgtatt catcctgaca 240

ttttaacttg ctattctgtg tgaccgaata cttgttatac ctagaatacg acctaatgac 300

cttctgattt ctcattgattt cttttcaaac aggggtctaag tcattctactt gcattttt 357

024-US1-Sequence Listing.ST25.txt

<210> 57  
 <211> 409  
 <212> DNA  
 <213> Rattus sp.

<400> 57  
 ggaggcggag gatgagtgcc aacaccctcg actgcctgct ctaggcgatg aggttataga 60  
 aagggaagag ttccaggata tggctgtgtg ttaggggggc atgaaggcag gttataaaca 120  
 aatatatccc agctgcctaa ggagttgggt gctgtcctca ctcttaacaa tccagtggga 180  
 tctagtgatc aacatcagtt tggagactct aatcttcatt ctcattgatt catcctgaca 240  
 ttttaacttg ctattctgtg tgaccgaata cttgttatac ctagaatacg acctaatgac 300  
 cttctgattt ctcattgattt cttttcaaac agggcttaag tcattctactt gcattttgcc 360  
 agaagctctc cggaatacaa agcatacaaa atctacttgc tattttctct 409

<210> 58  
 <211> 454  
 <212> DNA  
 <213> Rattus sp.

<400> 58  
 caaggctaca ggcctaggcc tagggataca acagcgaagg aaccactctg gtctcagccc 60  
 aagcagcaca gctggagcgc agctctcttc tcgctttcat ctttacggag acttgggtgg 120  
 aagggcgggc cttttgacat ctttgtcgtc ggccttggac tcagagatgg ccagcttatt 180  
 ctgcaggag cacagcagct ggaggtagct ctggttcctc tgcagcttct cctgctcctg 240  
 tcctgcttgc tgcttcaagg tttcaagttc ctggtgagaa ccatcaagct tctccagagc 300  
 tctcttccgg cgtctcttga cctcagcaga aatctttgtc agattctgca aacgcttctg 360  
 ctgcagcacc cactgcttct gagctaactg cagtttctcc tcaaggactc gcttcttagc 420  
 ctcaagttgc tcaaaagcct tctgaagctc ggcg 454

<210> 59  
 <211> 122  
 <212> DNA  
 <213> Rattus sp.

<400> 59

024-US1-Sequence Listing.ST25.txt

ttttttttttt tttttttttt tttccctttg ggaggttttt ttcaaaaacc ccggaaaaat	60
tggccctggt tccgggggggt ttttgaaaaa ataaaaacgg gaactaaccg gggggggggga	120
aa	122

<210> 60  
 <211> 122  
 <212> DNA  
 <213> Rattus sp.

<400> 60	
ttttttttttt tttttttttt ttttcctttg ggaggttatt ttcaaaaagc ccggaaaaat	60
tggccctggt ttcgggggggt ttttgaaaaa ccaaaaacgg gaaccaaccg gggggggggga	120
aa	122

<210> 61  
 <211> 671  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(800)  
 <223> n

<400> 61	
ggagagaaatg gaggaggcgg tcatgtcaat tctgcacaac ttagagatga agaacactga	60
gatccatgag aacaaccgta aggtgaagaa ggagattacc ttctctagaa acctgctcag	120
ccagctcctg atggagaaca catgtaggaa gaagttgctc ccactgaagc aggagagcaa	180
ggaggggacat cttgagtgtg caatgaacca gaaatatttg gttgacttca acaagaaaga	240
taaagaccag caacctccag acccagcatc atcaggtctc agaaagtgca agagagctgg	300
aattggacac acagcagtaa gagagcttcc tgaagaataa gttgctttct cacgagtccc	360
tgatgacaaa catcctgaac gaaaacatca cttgagagac aacttggggg accgcctttc	420
attatgtgtg ctagaggaga aacagcaata catctgtgct tctaaatggt cgттаагаат	480
atgctgttta gaaatatttt tgttatgatt ntaaатgagg tntcttttttg tggttcatat	540
ttatatggtc ttggtactat ntttactttc anatattttt aaatatttnt attcattcat	600

## 024-US1-Sequence Listing.ST25.txt

tntaaatcct gttggtggaa aatgattcaa tatgaataaa tatgtgttta ttcttgaaaa 660  
 aaaaanaaaa a 671

<210> 62  
 <211> 652  
 <212> DNA  
 <213> Rattus sp.

<400> 62  
 gaggaggcgg tcatgtcaat tctgcacaac ttagagatgg agaacactga ggtccatgag 60  
 aacaaccata atctgaagaa ggagatacct tctctagaaa cctgctcagc cagctcctga 120  
 tggagaacac atgtaggaag aagttggtcc cactgaagca ggagagcaag gaggtacatc 180  
 ttgattgtgc actgaaccag aaatatattgg ttgacttcaa caagaaagat aaagaccatc 240  
 aacggccaga accagcatta tcaggtctca gaaagtgcaa gagagctgga attggacaca 300  
 cagcagtaag agagcttcct gaagaataag ttgctttctc aggagtcctt gatgaccaac 360  
 atcctgaatg aaaacagcac ttgagagaca acttggggga ccgcctttca ttatgtgtgc 420  
 tagaggagaa acagcaatac gtctgtgctt ctaaagtgtc gttaagaata tgctttttaga 480  
 aatatattttg ttatgattta tttgaagttt tctttttggt gggtcatatt tatatgttct 540  
 tgttactatt tttacttttc aatatatttta atatttttat tcattttaatc ctgttttggt 600  
 ggaaaaatgt atttgttatg aataaaaatt gaattctaaa aaaaaaaaaa aa 652

<210> 63  
 <211> 662  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(800)  
 <223> n

<400> 63  
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 ggtccatgag aacaaccata atctgaagaa ggagattacc ttctctagaa acctgctcag 120  
 ccagctcctg atggagaaca catgtaggaa gaagttggtc ccactgaagc aggagagcaa 180

## 024-US1-Sequence Listing.ST25.txt

```

ggaggtacat cttgattgtg cactgaacca gaaatatttg gttgacttca acaagaaaga      240
taaagaccat caacggccag aaccagcatt atcaggtctc agaaagtgca agagagctgg      300
aattggacac acagcagtaa gagagcttcc tgaagaataa gttgctttct caggagtccc      360
tgatgaccaa catcctgaat gaaaacagca cttgagagac aacttggggg accgcctttc      420
attatgtgtg ctagaggaga aacagcaata cgtctgtgct tctaaatggt cgttaagaat      480
atgcttttag aaatatTTTT gttatgattt atttgaagtt ttcttttttg tggttcatat      540
ttatatgttc ttggtactat ntttactttc aaatatTTTta aatatTTTtat tcatntaatc      600
ctgnTTTgggT gganaaatgt atTTTgtatg aataaaaaaT ggattctaaa aaaaaaaaaa      660
aa                                                                    662

```

```

<210> 64
<211> 650
<212> DNA
<213> Rattus sp.

```

```

<220>
<221> misc_feature
<222> (1)..(800)
<223> n

```

```

<400> 64
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caccatcaaa acagagccca tagctgcctg ccccccggtA tagttagaga caggccgtgt      180
gttacctcta caattaaaac gtacttgtag acttggnngt aagggaccct ccacctatTT      240
caaattctgc cagaagacag aaggatgttc actcaccaat caagaaccct tggcttccta      300
ctcctgactt tgTcgctgga ntgctggcta cagtaccaaA cctatgtaga actatcatct      360
tcagTcgagc ctcggtgtaa ttggcagaga ttctgagtca actaccatgc agagatctcc      420
gaccctgtct agagacattt actagaagct gtcttacagc cctgtctttg aggcgagaca      480
cataccaaat gtatgttccc ccaagaggag acacactcta tcttcagata tctgtgaacc      540
cannnnnnnaa aaaaaaaaaa accagcccgcccc gggggggcgca ccttgaatga cacaggggac      600
atggntggct gccccgtata gaaagcccca gcttnaacac agnaaatgtg                    650

```

024-US1-Sequence Listing.ST25.txt

<210> 65  
 <211> 484  
 <212> DNA  
 <213> Rattus sp.

<400> 65  
 cagaagcagt tagaagtcac caatgctatt gtggacccca gcatgaaccc cgacctactg 60  
 atgggaaaca gggctcctgc aggggtccgtt cagccaggac ttgggaaagc ccggccagca 120  
 gctcagagct cagcttctcc tgcctcgggtg gacaccttgc tgccagccat gcctctcagg 180  
 agcttcccac aacggggcaaa ctgcggggccc cccggcctcc cggagcctgc cttccttcct 240  
 gatgctgaga ggtttctgat ctaagctgtg aggcggggcaa ggccagcctt cttgtgcgcg 300  
 tgtgtcctgt gcatcaccca tcccatggcc cacctgcctg gctcaggcag ttctgtgaaa 360  
 accccacatg tgccataacc catggacggg tgcctcccat tcccaggcct ctctcagcc 420  
 agcacccgaa ccacttcac cagctcatgg ctaccccatc cccacagacc tcctagccca 480  
 gccc 484

<210> 66  
 <211> 132  
 <212> DNA  
 <213> Rattus sp.

<400> 66  
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 attttccttt ccccccaaaa aattagggag attccagtgt taaaaatgtc ctcaaaattt 120  
 ttatgaccct aa 132

<210> 67  
 <211> 172  
 <212> DNA  
 <213> Rattus sp.

<400> 67  
 gagaccaaga agcctggcat gaacttgcag aactttatat caatgagcat gactatgcca 60  
 aagcagcctt atgcttagag gagctgatga tgacaaatcc acataaccac ttgtactgtc 120  
 aacaggacgc agaggtcaaa tacacccaag gtggacttga aaacctgggtg ct 172



024-US1-Sequence Listing.ST25.txt

<210> 68  
 <211> 382  
 <212> DNA  
 <213> Rattus sp.

<400> 68  
 aggttgattc ctagcagcca catggagcca aattgtctgt aactctagtt ccaggggtctc 60  
 caacatctac ccttgaccat ggctggcact gtgtgtatgt ggtgcacaaa cacacgaagg 120  
 cagaacacct aaaaggggta tatgtgctat catttaagtg tctcttaaata gaaaagcctt 180  
 caaccaggat ttcatcatta gaaatagaat tgatgtccac cctgtgtcat gggaactgag 240  
 aggaagggca gtataaatct gagagggttcc tttgtgtggt ggacccccgaa gaagaaagcc 300  
 ccatggctga acagctgttg tctcctccta cccacagct ttccctaata aagggtattgt 360  
 tattttgaaa aaaaaaaaaa aa 382

<210> 69  
 <211> 53  
 <212> DNA  
 <213> Rattus sp.

<400> 69  
 cttctctaac atgtcggtgg gcgtcacatc agtggtgacc tactcttccg tct 53

<210> 70  
 <211> 226  
 <212> DNA  
 <213> Rattus sp.

<400> 70  
 caggaggccc caagagctgc aggctagtgg gtccaggcta aggacttggg aagtgggggtt 60  
 cagctcaggc ttggctgcag atgttagatg cagagacttc tgacctgtct aacaattaga 120  
 cctgttactg ccagtgtagg gacagatggg ttctttgact tcaagaagcc cattagtgga 180  
 aagacatctg acttggtatg ttactaagac agcaataacc ctgtag 226

<210> 71  
 <211> 434  
 <212> DNA  
 <213> Rattus sp.

<400> 71

024-US1-Sequence Listing.ST25.txt

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gcctcc	at	cc	ct	ca	at	cg	tc	tga	agt	gat	c	tg	tt	ag	ct	aa	gag	cat	gg	ct	ccc	ag	ggg	ggc	120		
cg	tc	ct	ca	gc	cact	tgt	act	cct	ggg	ct	ag	cct	tgt	ca	ta	ag	at	g	cc	acc	tgg	a	ca	ct	ga	180	
tgg	agt	att	g	gag	ca	gc	agg	cct	gg	ct	cct	gac	ct	aa	act	gac	ag	ct	ca	g	act	ct	gc	agg	240		
agt	ct	g	ct	gg	aa	at	cca	aca	tct	t	act	caa	ca	act	g	cc	g	cc	g	g	cc	ag	at	ggg	g	300	
gt	ggg	cca	ag	ac	ag	gg	t	g	cc	tt	ata	ct	tt	t	g	tt	ct	ag	ca	ca	tt	cca	ag	g	ta	360	
tc	ag	ca	ct	g	ga	at	ccc	ata	tgt	caa	ag	cc	ag	t	att	aa	ag	ca	ag	t	t	t	at	g	cat	tc	420
tc	ag	ca	ct	g	ga	at	ccc	ata	tgt	caa	ag	cc	ag	t	att	aa	ag	ca	ag	t	t	t	at	g	cat	tc	434

<210> 72  
 <211> 569  
 <212> DNA  
 <213> Rattus sp.

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gg	ac	ca	ag	cc	tct	g	act	ca	g	ac	ct	gt	ata	t	gg	ca	cc	aa	gt	taca	ac	cc	tt	tcca	aa	ag	gc	180				
tct	t	ccc	agg	gg	ag	ca	ct	tt	g	ca	t	t	t	t	ct	g	ca	g	ac	cc	ca	tt	at	cc	ct	tt	cc	ca	at	g	ccc	240
tct	ct	ct	g	ac	tt	g	ag	ca	tc	agg	cc	ag	act	gc	ct	g	ag	at	c	tg	gt	gc	ct	g	ca	ca	gt	gc	ct	300		
gg	cc	ag	gg	gt	gag	g	ct	tt	g	tt	ac	ct	t	ct	g	tt	gt	at	tt	gt	gt	g	at	ag	at	ggg	ca	g	ct	aa	360	
ca	att	g	ta	ac	agg	tc	ct	ag	g	tc	ag	at	gt	g	at	gg	t	ct	ca	tac	ag	t	gg	ct	tct	aat	gg	ag	420			
aat	gt	at	ct	g	aac	cc	ata	tc	aa	at	ca	cc	tc	act	gt	at	tt	tt	tct	ct	tt	cc	ct	aac	ct	gt	ta	aa	480			
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<210> 73  
 <211> 552  
 <212> DNA  
 <213> Rattus sp.

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024-US1-Sequence Listing.ST25.txt

ggataccttt agctctctga ccgaggacca agcctctgac tcagacctgt atatggcacc	120
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cccattatcc ctttcccaat gccctctctc tgactttgag catcaggcca gactgcctga	240
gatctggtgc ctgccacagt gcctggccag gggtgaggct ttgggttacct tctgttgtat	300
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tttttctctt ccctaacctg ttaactagcc attgttgtag ggggcttttg cacagtgcct	480
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ccctttaaac gg	552

<210> 74  
 <211> 188  
 <212> DNA  
 <213> Rattus sp.

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gttttcaaaa gggggggggg gggggggggc cccctcccgc ccttttaggt ttgggggggg	180
gggggaaa	188

<210> 75  
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 <212> DNA  
 <213> Rattus sp.

<400> 75	
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cccagggggg gggggccaaa accctccttt tttaataaac ctttaccgaa gaagggtcct	120
ccaaaggggg gggggggggg gggcccccca cccgcccttt caggggttggg gggggggggg	180
aa	182

<210> 76  
 <211> 293  
 <212> DNA

<213> Rattus sp.

<400> 76

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acgtcgcttt ttgatacttc gatgtcggct cttcctatca ttgtgaagca gaattcacca	180
agcgttggat tgttcaccca ctaataggga acgtgagctg ggattagacc gtcgtgagac	240
aggttagttt taccctactg atgatgtgtt gttgccatgg taatcctagt cag	293

<210> 77

<211> 295

<212> DNA

<213> Rattus sp.

<400> 77

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cgacgtcgct ttttgatcct tcgatgtcgg ctcttcctat cattgtgaag cagaattcac	180
caagcgttgg attgttcacc cactaatagg gaacgtgagc tgggattaga ccgtcgtgag	240
acaggttagt tttaccctac tgatgatgtg ttgttgccat ggtaatcctg ctgag	295

<210> 78

<211> 199

<212> DNA

<213> Rattus sp.

<400> 78

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gcagttctgg catgtcctcg cagctcggct ggctttcatc attgtgtttg agcacctcgt	120
gttttgtata aagcacctca tttcctatct gataccagac ctcccgaag atctaaggga	180
ccggatgagg agagagaag	199

<210> 79

<211> 404

<212> DNA

<213> Rattus sp.

<220>

024-US1-Sequence Listing.ST25.txt

<221> misc\_feature  
<222> (1)..(800)  
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<400> 79  
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acagcacttg cttagcctat gtgagaccct gcacttaatg cccagcacca cataaaagaa 180  
acaaaataacc tctatttttaa gatgatgctt aagaattatc ctattacaaa gcagcagcag 240  
atataacttt acaattataa aagagctaaa ccagaacca caatcagtgt ctaagtgcga 300  
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acacacgcgc acacacacac acacgcgctc cctcctactg tgng 404

<210> 80  
<211> 402  
<212> DNA  
<213> Rattus sp.

<400> 80  
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acagcacttg cttagcctat gtgagaccct gcacttaatg cccagcacca caaaaaagaa 180  
acaaaataacc tctatttttaa gatgatgctt aagaattatc ctattacaaa gcagcaaaaa 240  
tataacttta caattataaa agagctaaac cagaaccac aatcagtgtc taagtgtgaa 300  
tctaataaac actgcctctc tgcagctctt accagctttc tgggttggtta cacacactca 360  
cacacgcgca cacacacaca cacgcgctcc cttctactga gg 402

<210> 81  
<211> 403  
<212> DNA  
<213> Rattus sp.

<400> 81  
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024-US1-Sequence Listing.ST25.txt

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acaaaatacc tctatttttaa gatgatgctt aagaattatc ctattacaaa gcagcaaaaa	240
taataacttt acaattataa aagagctaaa ccagaaccca caatcagtgt ctaagtgtga	300
atctaataaa cactgcctct ctgcagctct taccagcttt ctggggttggg acacacactc	360
acacacgcgc acacacacac acacgcgctc cctcctactg agg	403

<210> 82  
 <211> 349  
 <212> DNA  
 <213> Rattus sp.

<400> 82	
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gtttgggttg cgttttgcat tatcacacaa ttggagctcc ttactgtgtg agccagcctt	120
ctcgacgccc ggtgattttt ttttaaaaga tgtcatgtct gactcaatac aataatgtca	180
tcttaaattt tggcccctta tttgaatact atagctacaa tcaaaataat ttgttaaatt	240
gcttatatta agagtaaaca tggatatgac attgggtgtc cacctgcaaa ctttagaaca	300
atttactgta gcttgatgct tagccaattt taagtgagga attcaacat	349

<210> 83  
 <211> 118  
 <212> DNA  
 <213> Rattus sp.

<400> 83	
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<210> 84  
 <211> 155  
 <212> DNA  
 <213> Rattus sp.

<400> 84	
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taaagtacag caagcgtgaa aaaaaaaaaa aaagg	155

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<210> 85  
 <211> 533  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <222> (1)..(600)  
 <223> n

<400> 85  
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 tatggctcct taaactgatt gcctaaccac ccaagggcaa ttcccatcca tccatcacat 120  
 gggttgtggg aaggatgcag ccatgggtgtg cagcttcctt catgaaggat tatctggcca 180  
 tggtacctga ctgcttcaca acttgctgtc actctgggtg agataatgtg tctttaaaaa 240  
 cagtcacctgt ggcagggtcac tgggatataa tgtacaacat tcttagccat catttctttt 300  
 cttttttttt cttttttttg gtttgccctg agagactccc agtgggtttct actgagggct 360  
 aaagggacga gctgttccct cattgagcaa gaccgttcgc tgttcatgat gtgttttatg 420  
 atggcttctt tgggagttgc ttcttcaaca gtctcaactg tgctgnggga tctcctgatg 480  
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<210> 86  
 <211> 123  
 <212> DNA  
 <213> Rattus sp.

<400> 86  
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 aaa 123

<210> 87  
 <211> 347  
 <212> DNA  
 <213> Rattus sp.

<400> 87

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gacactggcc acgggctacc agtattcctt cccagagtta ggagctgcct taaaggatgt	120
tgtaacctaa gtagagaagg gagccccaag gcaggagggtg gggcctgttc ctgcattctg	180
agaagtgagt caggtgattg ctgtgcttga ctgagatcag aagccatctg gctcttagac	240
tctctctctc tcccctttct tcccatgttc tgttgatcca cctctctcca agaaactcca	300
gtctcaagga tctaattctca ttctaacctt aacctcctca acttctt	347

<210> 88  
 <211> 438  
 <212> DNA  
 <213> Rattus sp.

<400> 88	
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tgtaacctaa gtagagaagg gagccccaag gcaggagggtg gggcctgttc ctgcattctg	180
agaagtgagt caggtgattg ctgtgcttga ctgagatcag aagccatctg gctcttagac	240
tctctctctc tcccctttct tcccatgttc tgttgatcca cctctctcca agaaactcca	300
gtctcaagga tctaattctca ttctaacctt aacctcctca acttcttgtg gcttctgtgt	360
cacattgttg ccctgggttct cctacatgct atgtagacaa agttctacag ttgtggcaat	420
aaaggtagac tgtgtctg	438

<210> 89  
 <211> 90  
 <212> DNA  
 <213> Rattus sp.

<400> 89	
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aagtgccacc ttacaaaaaa aaaaaaaaaa	90

<210> 90  
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 <212> DNA  
 <213> Rattus sp.



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<400> 90  
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g 121

<210> 91  
<211> 469  
<212> DNA  
<213> Rattus sp.

<220>  
<221> misc\_feature  
<222> (1)..(600)  
<223> n

<400> 91  
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actccaggca gtttaaagca cctttcttgc acgccccgac ctcgtagagt gagtctagct 180  
ggagaaacaa aggctcttct ttgtagaaag aactctccca caaagagaga aaaattctct 240  
caagagaagc tgtgacttgc ccttgggtca cacgtggcaa actctcccgt gaacccgaga 300  
cccagagcca aggcctttat ctccgtaaca gttatccctg taaagaattc tcttgtgagt 360  
cctttacagt tactctggca tctcatatgt atgcgtatat gcatcagatg aactgggttc 420  
catccctttg atgttctata aatagactct atcacggann aaaaaaaaaa 469

<210> 92  
<211> 415  
<212> DNA  
<213> Rattus sp.

<400> 92  
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gctgaagaaa caaaggctct tctttgtaga aagaactctc ccacaaagag agaaaaattc 180  
tctcaagaga agctgtgact tgcccttggg tcacacgtgg caaactctcc cgtgaacccg 240  
agacccagag ccaaggcctt tattcccgga taacagttat ccctgtaaag aattctcttg 300

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tgagtccttt acagttactc tggcatctca tatgtatgcg tatatgcatc agatgaactg	360
ttttccatcc ctttgatggt ctataaatag actctatcac ggaaaaaaaa aaaaa	415

<210> 93  
 <211> 347  
 <212> DNA  
 <213> Rattus sp.

<400> 93 ggagctaatt gcgcgcggcc gcggtacgac gaacctgcgc atggatacga agtgggggtgg	60
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cctcaccatc cccagccctt cctctggatg aggatgtgaa ggacagaggc atctccaaaa	180
tgggctactt ttggtataga ccttaggagt gtggggctgg tgtaagctct tggttccttt	240
aaaaggagaa ttttattttg ttttgttcag ttagacatt cctggatgca gtttgattgg	300
ttaaattaaa agttgatatt tttttccagt aaaaaaaaaa aaaaaaa	347

<210> 94  
 <211> 253  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(600)  
 <223> n

<400> 94 ttaaaactgc ttaccagtgg ctgtctgcgc tgcggaaggt gagcatcaac aacacgggac	60
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aagagaagac aggtcagggc tgcgataaga cccggnacg ggtgaccctg caggagtgga	180
atgaccctnt tgaccgtgac cttgaggccc anctcatcta ccggcacctg ctgggcnngg	240
aggccatgct gtg	253

<210> 95  
 <211> 159  
 <212> DNA  
 <213> Homo sapiens

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<220>

<221> misc\_feature

<222> (1)..(600)

<223> n

<400> 95

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ctgcggtcac tcaacagtgc cccactgtgg cgtgatgtca ttgccacctt cacagaccac 120

tgcatacaagc agctgccatt cccttatcgt cgtcgtcct 159

<210> 96

<211> 220

<212> DNA

<213> Homo sapiens

<400> 96

gataagagaa tccttcatct ttgacctggc tttttttcgc cctttgggag ataaagggtcc 60

ctctccaccc tctactaaca ctctgcaccc aaggccttat cctttgggggt caccagctcc 120

ttggccattt ctatgtgatt tccccacccc atctgagttc cagtttcctc tgggctccaa 180

tctccagttc ctggcggatc tggtcagtcc caccctagg 220

<210> 97

<211> 212

<212> DNA

<213> Homo sapiens

<400> 97

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cagggctagc acctctccct ggagcttggg gctaggtgca tcttcgtgct cctgctgggt 120

gctctcagtg ccgctgcact cctccttgag attttcctca tctgagcgct ccatactctc 180

ccataggcgt tgggtggcaa ctagttagtt ag 212

<210> 98

<211> 100

<212> DNA

<213> Homo sapiens

<400> 98

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atagttgggc ttatcgtcgt cgtccttgta atccatgggtg 100

<210> 99  
 <211> 239  
 <212> DNA  
 <213> Homo sapiens

<400> 99  
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 gctgtgtcat tgtgtcagct gccaaagccc aactgctgca gtgccagcac catccagcct 180  
 ggtatgggtga tacattgaag caaaagacat cctggacttg cctcttggtg gttagttag 239

<210> 100  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens

<400> 100  
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<210> 101  
 <211> 172  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(200)  
 <223> n

<400> 101  
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 tacagacata tattctaagg agaaaacgat ttctgcttat cgtcgtcgtc ct 172

<210> 102  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

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<400> 102  
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 agccctctta tcgtcgtcgt ccttgtaatc catggt 156

<210> 103  
 <211> 118  
 <212> DNA  
 <213> Homo sapiens

<400> 103  
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 gaacggccct ttgtggcccg gtttggattt gacgtggtga cgtgctgtgg atacctcc 118

<210> 104  
 <211> 174  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(200)  
 <223> n

<400> 104  
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 gcagacatac ccatttccct ttagtaattt ttttaatacag agaatgctat taac 174

<210> 105  
 <211> 139  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(200)  
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<400> 105  
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agatggagga aggaggccc 139

<210> 106  
<211> 149  
<212> DNA  
<213> Homo sapiens

<400> 106  
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ttatcgtcgt cgtccttgta atccatggt 149

<210> 107  
<211> 159  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> n

<400> 107  
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gaagctgana aaaccctgca ggtccttgna atccatggt 159

<210> 108  
<211> 128  
<212> DNA  
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<220>  
<221> misc\_feature  
<222> (1)..(300)  
<223> n

<400> 108  
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tccatggt

128

<210> 109  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(400)  
 <223> n

<400> 109  
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 cctgagatac catctgttaa atncttaagc aatttcgcat gccttatgag accntgctga 180  
 ttaaaaacat ctagtcttgt tttctttttt ttgagacgaa ntctcgctct gtca 234

<210> 110  
 <211> 114  
 <212> DNA  
 <213> Homo sapiens

<400> 110  
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 gtggcatggt ccaccctctc aagggcctag ctatcatgat acgagggcgaa tggg 114

<210> 111  
 <211> 227  
 <212> DNA  
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<220>  
 <221> misc\_feature  
 <222> (1)..(400)  
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<400> 111  
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 aggatgagca gctatccaag tttagtttaa gggaaaccac aggctccgag agtgatgggg 120  
 gtgactcaag cagcaccaag tctgaagggtg ccaacgggac agtggcaact gcagnaatcc 180

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agcccaagaa agttaagctt atcgtcgtcg tccttgtaat ccatggg 227

<210> 112  
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<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)..(400)  
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<400> 112  
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ctgggggcttt agactctctc tccaccaatc cctgatgacc ccggtgggtgc ctcacaatgg 180  
gcattccaag tagcgcccg 199

<210> 113  
<211> 252  
<212> DNA  
<213> Homo sapiens

<400> 113  
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aaggacctgt tgagaaatct gagctcgact tgtaggctta attagttagt taggataccta 120  
actaactagg gacctggaca gcatcttccg ccgtatcagg acgctgaaag ggaaactggc 180  
caggcagcac ccagaggcct tcagccatat ccagaggca tccttcctgg aggaagagga 240  
tgcttatcgt cc 252

<210> 114  
<211> 161  
<212> DNA  
<213> Homo sapiens

<400> 114  
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agcaccctc ccgaggcagc ataagcagga gagaagaagg ctagtccttg gcaccacaag 120



gccccgaggg cagccacagc ctcggcctgg tagttagtta g 161

<210> 115  
 <211> 161  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(161)  
 <223> n

<400> 115  
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 ggactagcct tcttctctcc tgcttatgct gcctcgggag gggtgctggg cctaaaccta 120  
 cagccagagc agcccatgg gctctacctt ntgccccctg g 161

<210> 116  
 <211> 184  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(200)  
 <223> n

<400> 116  
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 agtcctaagc gctgcccgca gggtcgcgat gtctgccagg tactgctggc tggctctaga 120  
 caccagcagc agtgataaga aacaaagcag aggagacgtt gaggcagcag agacagcaga 180  
 tccg 184

<210> 117  
 <211> 261  
 <212> DNA  
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<220>  
 <221> misc\_feature  
 <222> (1)..(200)  
 <223> n

<220>  
 <221> misc\_feature  
 <222> (1)..(300)  
 <223> n

<400> 117  
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 tcaaactttc cttaaagttc tcattgcctt tgcactgctt ctgtgaacag tctttgtctc 180  
 ctccccacct ttggtgggaa gtgcgngca gtcctgggtca agacactcat gccttggcaa 240  
 tgtggctgcc tagttagtta g 261

<210> 118  
 <211> 124  
 <212> DNA  
 <213> Homo sapiens

<400> 118  
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 atgaaaatca gacgataggg cctcctgttg taatcttata gtcgtcgtcc ttgtaatcca 120  
 tggt 124

<210> 119  
 <211> 238  
 <212> DNA  
 <213> Homo sapiens

<400> 119  
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 cgtcccggtc ggcagtgagg atgaagcggc catcaggact cacagccaca tctaacagca 120  
 tagacaggtg ccccagctct agacggccac acccgtgtgg ctccagcacc gaaaaggagt 180  
 agacgtctcc agacttgctc gccaccaaga cttctctctc cgaggctatg aaagtcag 238

<210> 120  
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 <212> DNA  
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<220>
<221> misc_feature
<222> (1)..(200)
<223> n

<400> 120
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ggccaggact gctgaac                                                         137

<210> 121
<211> 91
<212> DNA
<213> Homo sapiens

<400> 121
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tacagttcct ttgaacaggg tagttagtta g                                         91

<210> 122
<211> 171
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(200)
<223> n

<400> 122
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tgtccaaaga ggggaggaaa acatccatca aatctcatnn gtctgggtct ccaggccctg    120
gtggnagcaa cacatttttn atccacacca gtcattgggg gcagtgataa g               171

<210> 123
<211> 165
<212> DNA
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<400> 123
gccgatgcaa caaccacatt gactccaagg acaatctaaa attgaactca aggcagcacc      60

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taacaagtct ctcgtgcttg caccctcctt ctaggcccat ctaaaagcct ctctgcctca 120  
ggcgttctcc cagaagatct gcccaactctc ttccccacac cagcc 165

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<211> 174  
<212> DNA  
<213> Homo sapiens

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aggaaatgag tagaagttca caagcaaccc agaataaggatg ccagcagttt gctccagtgg 120  
gccacaccac agcagcagct caggctctgc agaatacactg tgtccagtgc ttcc 174

<210> 125  
<211> 158  
<212> DNA  
<213> Homo sapiens

<400> 125  
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atccaaatta tgccaacttt ctatctcctc atgagatatt tgcacctgcc gttcccagta 120  
acctcagggc tcagtgcattg agttgaagct gcctttct 158

<210> 126  
<211> 124  
<212> DNA  
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<220>  
<221> misc\_feature  
<222> (1)..(200)  
<223> n

<400> 126  
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atct 124

<210> 127

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<211> 180  
 <212> DNA  
 <213> Homo sapiens

<400> 127  
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 tgtgggttaga gcagccagcg ggtacagaat ggattttgga agagggagtc accactggac 120  
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<210> 128  
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 <212> DNA  
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<220>  
 <221> misc\_feature  
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<400> 128  
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 ggcttggccc ccgccttagg ccccgccagc aggcgaagca gggagatgtc agactgctac 180  
 acggagctgg agaaggcagt cnttgtcct 209

<210> 129  
 <211> 137  
 <212> DNA  
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<220>  
 <221> misc\_feature  
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<400> 129  
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<210> 130  
 <211> 84  
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 <213> Homo sapiens

<220>  
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<400> 130  
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 cacaaccctc ttgtaatcca tggt 84

<210> 131  
 <211> 120  
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<400> 131  
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